This listing of claims will replace all prior versions, and listings, of claims in the application: LISTING OF CLAIMS:

1. (Currently Amended) An optical module, comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component; and

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber.

- 2. (Original) An optical module according to claim 1, wherein the active optical component comprises a laser.
- 3. (Original) An optical module according to claim 1, wherein the active optical component comprises one of an edge emitting laser and a vertical emitting laser.
- 4. (Original) An optical module according to claim 1, wherein the active optical component comprises a detector.
- 5. (Original) An optical module according to claim 1, wherein the beam shaping optical component includes a lens.
- 6. (Currently Amended) An optical module according to claim 1, wherein: comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

the optical module additionally comprises a frame to which the optical fiber and the beam shaping optical component are affixed; and, wherein the positioning device comprises a micro-machined movable stage affixed between the frame and the active optical component.

7. (Cancelled) An optical module according to claim 1, wherein:

the optical module additionally comprises a frame to which the optical fiber and active optical component are affixed; and

the positioning device comprises a micro-machined movable stage affixed between the frame and the beam shaping optical component.

8. (Original) An optical module according to claim 1, wherein:

the optical module additionally comprises a frame to which the beam shaping optical component and active optical component are affixed; and

the positioning device comprises a micro-machined movable stage affixed between the frame and the optical fiber.

9. (Currently Amended) An optical module according to claim 1, wherein: comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

the optical module additionally comprises a frame to which the optical fiber is affixed[;], wherein the positioning device comprises a first micro-machined movable stage affixed between the frame and the active optical component[;], and the positioning device additionally comprises a second micro-machined movable stage affixed between the frame and the beam shaping optical component.

10. (Currently Amended) An optical module according to claim 1, wherein: comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

the optical module additionally comprises a frame to which the optical fiber is affixed[;], wherein the positioning device comprises a first micro-machined movable stage affixed between the frame and the optical fiber[;], and the positioning device additionally comprises a second micro-machined movable stage affixed between the frame and the beam shaping optical component.

11. (Currently Amended) An optical module according to claim 1, wherein: comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

the optical module additionally comprises a frame to which the optical fiber is affixed[;], wherein the positioning device comprises a first micro-machined movable stage affixed between the frame and the active optical component[;], and the positioning device additionally comprises a second micro-machined movable stage affixed between the frame and the optical fiber.

- 12. (Original) An optical module according to claim 1, wherein the optical module additionally comprises means for holding the positioning device in position.
- 13. (Currently Amended) An optical module according to claim 12, wherein the comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

means for holding the positioning device in position, wherein the means for holding comprises a position memory circuit operable to control the positioning device.

14. (Currently Amended) An optical module according to claim 12, wherein the comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

means for holding the positioning device in position, wherein the means for holding comprises solder.

- 15. (Original) An optical module according to claim 14, wherein the means for holding additionally comprises a micro heater capable of melting the solder.
- 16. (Currently Amended) An optical module according to claim 12, wherein the comprising:

an active optical component;

an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber;

a beam shaping optical component located in the optical path between the optical fiber and the active optical component;

a positioning device for moving at least one of the beam shaping optical component with respect to the optical fiber, the beam shaping optical component with respect to the active optical component, and the active optical component with respect to the optical fiber; and

means for holding the positioning device in position, wherein the means for holding comprises an adhesive.

- 17. (Original) An optical module according to claim 16, wherein the means for holding additionally comprises a micro heater capable of activating the adhesive.
- 18. (Currently Amended) An optical module according to claim 16, wherein the adhesive is capable of activation by exposure to one of ultraviolet radiation and RF radiation.
- 19. (Original) An optical module according to claim 16, further comprising a position memory circuit operable to control the positioning device.
- 20. (Currently Amended) A method of making an optical module comprising:

assembling an active optical component, an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber, a beam shaping optical component located in the optical path between the optical fiber and the active optical component, and a positioning device capable of moving one of a pair of elements with respect to the other, the pair of elements comprising one of (a) the beam shaping optical component and the optical fiber, (b) the beam shaping optical component and the optical fiber; (b) the beam shaping optical component and the optical fiber;

aligning to maximize coupling between the optical fiber and the active optical component; and

holding one of the pair of elements active optical component and the optical fiber in position with respect to the other after aligning.

21. (Currently Amended) A method according to claim 20, wherein the of making an optical module comprising:

assembling an active optical component, an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path

between the active optical component and the optical fiber, a beam shaping optical component located in the optical path between the optical fiber and the active optical component, and a positioning device capable of moving one of a pair of elements with respect to the other, the pair of elements comprising one of (a) the beam shaping optical component and the optical fiber, (b) the beam shaping optical component and the active optical component and (c) the active optical component with respect to the optical fiber;

aligning to maximize coupling between the optical fiber and the active optical component; and

holding emprises one of the pair of elements in position with respect to the other after aligning by freezing solder.

22. (Currently Amended) A method according to claim 20, wherein the of making an optical module comprising:

assembling an active optical component, an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber, a beam shaping optical component located in the optical path between the optical fiber and the active optical component, and a positioning device capable of moving one of a pair of elements with respect to the other, the pair of elements comprising one of (a) the beam shaping optical component and the optical fiber, (b) the beam shaping optical component and the active optical component with respect to the optical fiber;

aligning to maximize coupling between the optical fiber and the active optical component; and

holding emprises one of the pair of elements in position with respect to the other after aligning by activating an adhesive.

- 23. (Original) A method according to claim 22, wherein the activating the adhesive comprises exposing the adhesive to at least one of infrared radiation, ultraviolet radiation and RF radiation.
- 24. (Currently Amended) A method according to claim 20, further of making an optical module comprising:

assembling an active optical component, an optical fiber arranged with respect to the active optical component to be capable of propagating light along an optical path between the active optical component and the optical fiber, a beam shaping optical component located in the optical path between the optical fiber and the active optical component, and a positioning device capable of moving one of a pair of elements with respect to the other, the pair of elements comprising one of (a) the beam shaping optical component and the optical fiber, (b) the beam shaping optical component and the optical fiber,

aligning to maximize coupling between the optical fiber and the active optical component; and

positioning the positioning device according to a position memory circuit.